Innovative Instructional & Learning Design for the Web

Emerging concepts in e-learning
Benefits

- Provides a new delivery medium
- Enhances current DE systems
- Offers a new teaching and learning paradigm
Remember ...

- The integration of technology in the process needs to be seen as a means to improve the teaching and learning practices and NOT simply as a new delivery medium.
E-learning generations

Technology-driven
  • (MOOs http://en.wikipedia.org/wiki/MOO, e-learning platforms etc)

Content-driven
  • focused on the content being delivered (as paid service)

Process-driven
  • focused on sustaining innovative educational processes that guide the students in the learning processes (socio-constructivist contexts)
Successful learning ...

A three-phased triad

• Knowledge Acquisition phase

• Knowledge Application Phase

• Knowledge Construction through Sharing and Reflexive Practice
Learning is re-conceptualized

- It is an activity framework governed by the following rules.
Rules

Self-Reliance

• Use resources available locally. E.g. the local resources

Empowerment

• Enable subjects to react immediately to changing circumstances by having access to decision-making.
Rules (cont’d)

Interdependence
• Obtain resources elsewhere in order to act, to share [human] resources using Internet, and peer-networks.

Asynchrony
• Operate as quickly as possible, given local circumstances.
Rules (cont’d)

Reflexivity

• Enable critical thinking and creativity to continuously improve current practices.

Commitment:

• Regulate social interaction, reciprocity and collaboration for knowledge construction and sharing.
Instructional Design and E-Learning Environments

Three key inter-dependent components

- Pedagogy
- Technology
- Usability
E-learning courseware development team

Content-Expert

Instructional Designer
- normally the team leader for the project

Web Communication Designer
- conceptual Design of e-learning environment

Web and Multimedia Developer
- technical implementation

Computer/system Administrator (optional)
A number of software tools have been developed to help instructional designers improve productivity in their work.
ICT related tools

- Mind maps software
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- Knowledge modeling tools
- Courseware Authoring: The eXe software tool